AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended) A method of maintaining a terminal device ~~reporting terminal information~~, comprising the following steps:

~~reporting, by a terminal device, terminal information through a software program interface provided by a Device Management (DM) Agent module;~~

~~forwarding, by said DM Agent module, said terminal information to a DM Server;~~

receiving, at a Device Management (DM) Server, terminal information from a software program interface provided by a DM Agent module of a terminal device;

upon receiving said terminal information, judging, by said DM Server, whether the terminal device can be maintained automatically;

if it is judged that the terminal device can be maintained automatically, maintaining, by said DM Server, the terminal device following an Open Mobile Alliance (OMA) DM process;

~~and~~ otherwise reporting, by said DM Server, said terminal information to a Maintenance Unit (MU).

2. (Currently amended) The method as in claim 1, wherein said software program interface comprises a messaging interface, a file interface, an Application Programming Interface (API) ~~API~~, or a Web service interface.

3. (Currently amended) The method as in claim 2, wherein said messaging interface comprises an Extensible Markup Language (XML) [[XML]] interface or a network protocol interface.

4. (Original) The method as in claim 2, wherein when said software program interface employs the API, the terminal information is combined into an XML format and is transmitted to the API as an argument.

5. (Original) The method as in claim 1, wherein said DM Agent module transmits said terminal information via an extended Open Mobile Alliance DM (OMA DM) protocol.

6. (Currently amended) The method as in claim 5, wherein the transmission of said terminal information by said DM Agent module is implemented:

with a command of the ~~extend~~ extended OMA DM protocol which supports active event triggered by clients; or

~~by said DM Agent module is implemented~~ by extending a standard command of the OMA DM protocol into a terminal information reporting command; or

by adding a special terminal information reporting command into the OMA DM protocol; or

with a command of the OMA DM protocol ~~directly~~.

7. (Currently amended) The method as in claim 1, wherein said terminal information comprises error information created during [[the]] an operation of [[the]]

terminal software, error information created by [[the]] terminal hardware, and process information created during [[the]] an operation of the terminal device.

8. (Currently amended) A method for maintaining a terminal device, comprising the following steps:

~~reporting, by a terminal device, terminal information through a software program interface provided by a Device Management (DM) Agent module;~~

~~forwarding, by said DM Agent module, said terminal information to a DM Server;~~

receiving, at a Device Management (DM) Server, terminal information from a software program interface provided by a DM Agent module of a terminal device;

reporting, by said DM Server, said terminal information to a Maintenance Unit (MU);

upon receiving said terminal information, determining, by said MU, the corresponding software update package and sending said software update package to the DM Server;

judging, by said DM Server, whether the terminal device can be maintained automatically;

if it is judged that the terminal device can be maintained automatically, maintaining, by said DM Server, the terminal device with said software update package following an [[OMA]] Open Mobile Alliance (OMA) DM process;

otherwise reporting, by said DM Server, said terminal information to a Maintenance Unit (MU).

9. (Canceled).

10. (Currently amended) The method as in claim 8, wherein said software program interface comprises a network protocol interface, an [[XML]] Extensible Markup Language (XML) interface, or an Application Programming Interface (API) ~~API~~.

11. (Currently amended) The method as in claim 10, wherein when said software program interface employs the API, terminal device ~~program will combine~~ combines the terminal information into an XML format and send the combined terminal information to the API as an argument.

12. (Original) The method as in claim 8, wherein said DM Agent module transmits said terminal information via an extended OMA DM protocol.

13. (Currently amended) The method as in claim 12, wherein the transmission of said terminal information by said DM Agent module is implemented:

with commands supporting active event triggered by clients in the extend OMA DM protocol; or

by extending a standard command of OMA DM protocol into a terminal information reporting command; or

by adding a special terminal information reporting command into the OMA DM protocol; or

with a command of the OMA DM protocol ~~directly~~.

14. (Currently amended) The method as in claim 8, wherein said terminal information comprises error information created during an operation of [[the]] terminal software, error information created by terminal hardware, and process information created during operation of the terminal device.

15. (Currently amended) A Device Management (DM) system, comprising:

a DM Server adapted to manage a terminal device,

a DM Agent module located in the terminal device and interacting with said DM Server;

~~said Device Management system further comprising~~ a Maintenance Unit (MU) coupled to said DM Server and adapted to ~~acquire, store, and maintain~~ receive [[the]] information of the terminal device;

wherein:

said DM Agent module ~~modules~~ and said DM Server each have a software program interface ~~respectively~~;

the software program interface of said DM Agent module is ~~adapted~~ configured to receive the terminal information reported from the terminal device and forward the terminal information to the DM Server;

said DM Server ~~reports~~ is configured to report said terminal information to said MU;

said DM Server is further configured to judge whether said terminal device can be maintained automatically;

if it is judged that the terminal device can be maintained automatically, said DM server maintains said terminal device following an Open Mobile Alliance (OMA) DM process;

otherwise, said DM server sends the error information of said first terminal device to said MU.

16. (Currently amended) The DM system as in claim 15, wherein said software program interface comprises a messaging interface, a file interface, an Application Programming Interface (API) ~~API~~, or a Web service interface.

17. (Currently amended) A system for reporting terminal information applied to a communication network, the system comprising:

a ~~first~~ terminal ~~configured to communicate with a second terminal accessing said communication network~~;

a management unit ~~arranged~~ in said ~~first~~ terminal, configured to receive [[the]] information of said ~~first~~ terminal reported by said ~~first~~ terminal; and

a management server[[,]] configured to receive [[the]] information sent by said management unit;

wherein:

said management server is further configured to judge whether said terminal can be maintained automatically;

if it is judged that the terminal can be maintained automatically, said management server maintains said terminal following an Open Mobile Alliance (OMA) Device Management (DM) process;

otherwise, said management server sends error information of said terminal to a maintenance unit.

18. (Currently amended) The system as in claim 17, wherein the information of said ~~first~~ terminal is reported to said management unit via a software program interface; said software program interface comprises a messaging interface, a file interface, an Application Programming Interface (API) ~~API~~, or a Web service interface.

19. (Currently amended) The system as in claim 18, wherein said messaging interface comprises an [[XML]] Extensible Markup Language (XML) interface or a network protocol interface.

20. (Currently amended) The system as in claim 18, wherein when said software program interface employs said API, the information of the said ~~first~~ terminal is combined into an XML format and is reported to said API as an argument.

21. (Currently amended) The system as in claim 17, wherein said management unit sends the information of said ~~first~~ terminal to said management server via an extended Open Mobile Alliance DM (OMA DM) protocol.

22. (Currently amended) The system as in claim 21, wherein said management unit sends the information of said ~~first~~ terminal to said management server:

with a command of said extend OMA DM protocol which supports active event triggered by clients; or

by extending a standard command of said OMA DM protocol into a terminal information reporting command; or

by adding a special terminal information reporting command into said OMA DM protocol; or

with a command of said OMA DM protocol ~~directly~~.

23. (Currently amended) A system for maintaining a terminal device applied to a communication network, the system comprising:

a ~~first~~ terminal ~~configured to communicate with a second terminal accessing said communication network~~;

a management unit ~~arranged~~ in said ~~first~~ terminal, configured to receive [[the]] error information of said first terminal;

a management server, configured to receive the error information sent by ~~said~~ management unit; and

a maintenance unit, configured to receive the error information of said ~~first~~ terminal sent by said management server and send a corresponding software update package for maintaining said ~~first~~ terminal to said management server;

said management server further configured to judge whether said terminal can be maintained automatically;

wherein:

if it is judged that the terminal can be maintained automatically, said management server maintains said first terminal following an Open Mobile Alliance (OMA) Device Management (DM) process;

otherwise, said management server sends the error information of said terminal to said maintenance unit.

24. (Canceled).

25. (Canceled).

26. (Currently amended) A method of reporting terminal information applied to a communication network, the method comprising:

reporting, by a terminal accessing said communication network, the information of the terminal to a management unit;

upon receiving the information of the terminal, the management unit sending the information to a management server;

upon receiving said information of the terminal, judging, by said management server, whether the terminal can be maintained automatically;

if it is judged that the terminal device can be maintained automatically, said management server maintaining the terminal following an Open Mobile Alliance (OMA) Device Management (DM) process;

otherwise said management server reporting said information of the terminal to a Maintenance Unit (MU).

27. (Currently amended) The method as in claim 26, wherein the information of said terminal is reported to said management unit via a software program interface; said software program interface comprises a messaging interface, a file interface, an Application Programming Interface (API) ~~API~~, or a Web service interface.

28. (Currently amended) The method as in claim 27, wherein said messaging interface comprises an [[XML]] Extensible Markup Language (XML) interface or a network protocol interface.

29. (Original) The method as in claim 27, wherein when said software program interface employs said API, said terminal information is combined into an XML format and is reported to said API as an argument.

30. (Original) The method as in claim 26, wherein said management unit sends the information of said terminal to said management server via an extended Open Mobile Alliance DM (OMA DM) protocol.

31. (Currently amended) The method as in claim 30, wherein said management unit sends the information of said terminal to said management server:

with a command of said extend OMA DM protocol which supports active event triggered by clients; or

by extending a standard command of said OMA DM protocol into a terminal information reporting command; or

by adding a special terminal information reporting command into said OMA DM protocol; or

with a command of said OMA DM protocol ~~directly~~.

32. (Currently amended) A method for maintaining a terminal device applied to a communication network, the method comprising:

sending, by [[a]] the terminal device ~~accessing said communication network, the~~ information of the terminal device to a management unit;

upon receiving the information of the terminal device, the management unit sending the information to a management server;

upon receiving the information of the terminal device, said management server sending a corresponding software update package for maintaining said ~~first~~ terminal device to said management ~~server~~ unit;

upon receiving the information of the terminal device, said management server judging whether said terminal device can be maintained automatically; if it is judged that the terminal device can be maintained automatically, said management server maintaining said terminal device following an Open Mobile Alliance (OMA) Device Management (DM) process; otherwise, said management server reporting the information of said terminal device to an maintenance unit.

33. (Canceled).

34. (Canceled).